

20	31	56.4	234	9	US-10-063-547-14
	31	56.4	234	9	US-10-590-66
	31	56.4	234	9	US-10-216-78-66
	31	56.4	234	12	US-10-006-867-14
	31	56.4	234	12	US-10-586-66
	31	56.4	334	9	US-10-925-232-94
	31	56.4	334	9	US-10-925-232-94
	31	56.4	335	10	US-09-015-242-5830
	31	56.4	343	19	US-09-815-242-5830
	41	56.4	343	19	US-09-815-242-5830
	41	56.4	343	19	US-09-815-242-5830
	41	56.4	345	19	US-09-781-242-5830
	30	56.4	374	10	US-09-025-302-711
	31	56.4	384	10	US-09-758-498-3
	31	56.4	395	10	US-09-758-498-3
	31	56.4	412	10	US-09-025-302-1587
	31	56.4	525	9	US-10-003-344A-201
	31	56.4	624	10	US-09-015-242-1466
	35	56.4	624	10	US-09-015-242-1466
	36	56.4	745	10	US-09-015-242-12209
	37	54.5	34	10	US-09-064-761-34882
	38	54.5	440	10	US-09-064-761-44760
	39	54.5	76	9	US-09-984-245-239
	39	54.5	81	10	US-09-064-761-4772
	40	54.5	146	9	US-09-880-811-14
	41	54.5	151	10	US-09-880-811-14
	42	54.5	182	10	US-09-815-242-5588
	43	54.5	186	10	US-09-815-242-12426
	44	54.5	188	10	US-09-815-242-12426
	45	54.5	188	10	US-09-815-242-12773

200

## ALIGNMENTS

FILE REFERENCE: Acomica-X-1  
 CURRENT APPLICATION NUMBER: US/09/864,761  
 CURRENT FILING DATE: 2001-05-23  
 PRIOR APPLICATION NUMBER: US 60/180,312  
 PRIOR FILING DATE: 2000-02-04  
 PRIOR APPLICATION NUMBER: US 60/207,456  
 PRIOR FILING DATE: 2000-05-26  
 PRIOR APPLICATION NUMBER: US 09/632,366  
 PRIOR FILING DATE: 2000-08-03  
 PRIOR APPLICATION NUMBER: GB 24263,6  
 PRIOR FILING DATE: 2000-10-04  
 PRIOR APPLICATION NUMBER: US 60/236,359  
 PRIOR FILING DATE: 2000-09-27  
 PRIOR APPLICATION NUMBER: PCT/US01/00666  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00667  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00664  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00665  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00666  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00663  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00670  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR FILING NUMBER: US 60/234,687  
 PRIOR FILING DATE: 2000-09-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00661  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR APPLICATION NUMBER: PCT/US01/00670  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR FILING NUMBER: US 60/234,687  
 PRIOR FILING DATE: 2000-09-30  
 PRIOR FILING NUMBER: 2001-01-30  
 PRIOR FILING DATE: 2001-01-30  
 PRIOR FILING NUMBER: US 09/608,408  
 PRIOR FILING DATE: 2000-09-30  
 PRIOR FILING NUMBER: US 09/774,203  
 PRIOR FILING DATE: 2001-01-29  
 NUMBER OF SEQ ID NOS: 4,917  
 SOFTWARE: Aardmax Sequence Listing Engine vers. 1.1  
 SEQ ID NO: 44065  
 LENGTH: 57  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 FEATURE:  
 OTHER INFORMATION: MAP TO AC006195.1  
 OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.2  
 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.2  
 OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 7.6  
 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.4  
 OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1  
 OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.1  
 OTHER INFORMATION: EXPRESSED IN SPLEEN, SIGNAL = 1.1  
 OTHER INFORMATION: SWISSPROT HU: P56092, EVALUATE 4.60e-00  
 SEQ ID NO: 09-864 761 44065  
 LENGTH: 37  
 OTHER INFORMATION: Score 39, DB 10, Length 57;  
 OTHER INFORMATION: Best Local Similarity 72.7%; Pred. No. 0.9;  
 OTHER INFORMATION: 2 Mismatches, 1 Indels, 0 Gaps  
 1 ELMARQDYE, 11  
 18 FLILRQDYE, 28  
 SULLA, 3  
 09-828-313-33  
 Sequence 33, Application US/09828313  
 General Information:  
 APPLICANT: COSTA, e SILVA, OSWALDO DA  
 ATTORNEY: BOHNER, HANS J.  
 ATTORNEY: THIENLEN, NOCHA VAN  
 APPLICANT: SARRA-MILLAN, RODRIGO  
 ATTORNEY: PROTEIN KINASE STRESS-RELATED PROTEINS AND METHODS OF  
 TREATMENT FOR USE IN PLANTS  
 TITLE OF INVENTION: PROTEIN KINASE STRESS-RELATED PROTEINS AND METHODS OF  
 TREATMENT FOR USE IN PLANTS  
 FILE REFERENCE: 16313-0032  
 CURRENT APPLICATION NUMBER: US/99/828,313  
 CURRENT FILING DATE: 2000-04-06  
 PRIOR APPLICATION NUMBER: 60/196,001  
 PRIOR FILING DATE: 2000-04-07  
 NUMBER OF SEQ ID NOS: 128  
 SOFTWARE: PatentIn Ver. 2.1  
 SEQ ID NO: 33  
 LENGTH: 333  
 TYPE: PRT  
 ORGANISM: Physcomitrella patens  
 rs-04-628-313-33  
 OTHER INFORMATION:  
 Best Local Similarity 60.0%; Pred. No. 45;  
 OTHER INFORMATION: 6 Mismatches, 1 Indels, 0 Gaps  
 QY 1 ELMARQDYE 10  
 111:1111:  
 Db 196 ELMARQDYE 205  
 RESULT 4  
 US-09-863-475A-8  
 Sequence 6, Application US/09863475A  
 Patent No. US200010268A1  
 GENERAL INFORMATION:  
 APPLICANT: LOWE, JOHN B.  
 ATTORNEY: LOWE, JOHN B.  
 TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS  
 OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,  
 GLYCOPOLIPIDS, OR AS FREE MOLECULES, AND FOR THE  
 CLONED GENETIC SEQUENCES THAT PERFORM THESE  
 NUMBER OF SEQUENCES: 14  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: OBLIN, SIVAK, MCCLELLAND, MAYER & NEUSTADT,  
 P.C.  
 STREET: 1755 Jefferson Davis Highway, Fourth Floor  
 CITY: Arlington  
 STATE: Virginia  
 COUNTRY: U.S.A.  
 ZIP: 22202  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/863,475A  
 FILING DATE: 24-MAY-2001  
 CLASSIFICATION: 527/2001  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: 07/914,281  
 FILING DATE: 20-JUL-1992  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Layalieve, Jean-Paul M. P.  
 REGISTRATION NUMBER: 31,451  
 REFERENCE/DOCKET NUMBER: 2363-050-55  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (703)521-4500  
 TELEX: (703)46-2377  
 INFORMATION FOR SEQ ID NO: 8:  
 LENGTH: 405 amino acids  
 TYPE: amino acid  
 TOPOLOGY: unknown  
 MOLECULE TYPE: protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
 US-09-863-475A-8

Query Match 61.8%; Score 34; DB 10; Length 405;  
 Best Local Similarity 63.6%; Pred. No. 56;  
 Matches 7; Conservative 2; Mismatches 0;  
 Caps 0;  
 Qy 1 ELMRLQDYE 11  
 Db 137 1:1:1:1  
 EVDLRVDYE 147

RESULT 5

US-09-856-070-23.rapp

Query Match 60.0%; Score 33; DB 10; Length 46;  
 Best Local Similarity 60.0%; Pred. No. 8.6;  
 Matches 6; Conservative 3; Mismatches 1;  
 Caps 0;  
 Qy 2 LMLRLQDYE 11  
 Db 34 1:1:1:1  
 EVDLRVDYE 43

RESULT 6

US-09-947-442-2

Sequence 2, Application US/0947442  
 Patent No. US200402505486A1

GENERAL INFORMATION:

APPLICANT: Penn, Sharren G.  
 APPLICANT: Rank, David R.  
 APPLICANT: Hanel, David K.  
 APPLICANT: Chen, Wensheng  
 TITLE OF INVENTION: GPN: EXPRESSION ANALYSIS BY MICROARRAY

FILE REFERENCE: Amon, X-1

CURRENT APPLICATION NUMBER: US/09/864,761

CURRENT FILING DATE: 2001-05-23

PRIOR APPLICATION NUMBER: US 60/180,312

PRIOR FILING DATE: 2000-02-04

PRIOR APPLICATION NUMBER: US 60/207,456

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: US 09/632,366

PRIOR FILING DATE: 2000-08-03

PRIOR APPLICATION NUMBER: GB 2426345

PRIOR FILING DATE: 2000-10-04

PRIOR APPLICATION NUMBER: US 60/236,359

PRIOR FILING DATE: 2000-09-27

PRIOR APPLICATION NUMBER: PCT/US01/00666

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00667

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00664

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00669

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00665

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00668

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00663

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00662

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00661

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00670

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: US 60/234,687

PRIOR FILING DATE: 2000-09-21

PRIOR APPLICATION NUMBER: US 09/608,408

PRIOR FILING DATE: 2000-06-30

PRIOR APPLICATION NUMBER: US 09/774,203

FFTP FILING DATE: 2001-01-23

NUMBER OF SEQ ID NOS: 46117

SOFTWARE: Annotax Sequence Listing Engine vers. 1 1

SEQ ID NO 45608

LENGTH: 46

TYPE: PRT

ORGANISM: Homo sapiens

FEATURE:

OTHER INFORMATION: MAP TO A 009155.3

OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.55

OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.62

OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.94

OTHER INFORMATION: EST HUMAN HIT: AL38321.1, EVALUATE 5.00e-11

OTHER INFORMATION: SWISS-PROT HIT: P45891, EVALUATE 8.26e+01

RESULT 7

US-09-738-626-6077

Sequence 6077, Application US/09738626

Publication No. US20020197605A1

GENERAL INFORMATION:

APPLICANT: NAKAGAWA, SATOJI

APPLICANT: MIZOGUCHI, HIROSHI

APPLICANT: ANDO, SEIKO

APPLICANT: HAYASHI, MIKIRO

APPLICANT: OCHIYA, KEIKO

APPLICANT: YOKOI, HARUHIKO

APPLICANT: TATEISHI, NAKO

APPLICANT: SENOH, AKIHIRO

APPLICANT: IKEDA, MASATO

APPLICANT: OAKAI, AKIO

TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES

FILE REFERENCE: 249-125-001

CURRENT APPLICATION NUMBER: US/09/738,626

PRIOR APPLICATION NUMBER: 2000-12-18

PRIOR FILING DATE: 1999-12-16

PRIOR APPLICATION NUMBER: JP 00/156162

PRIOR FILING DATE: 2000-04-07

PRIOR APPLICATION NUMBER: JP 00/280088

NUMBER OF SEQ ID NOS: 7059

SEQ ID NO 6077

LENGTH: 236

RESULT 8  
 TYPE: PRT  
 ORGANISM: Corynebacterium glutamicum  
 US-09-738-626-6077  
 Query Match 60.0%; Score 33; DB 9; Length 236;  
 Best Local Similarity 54.5%; Pred. No. 48;  
 Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 GY 1 ELMRLQDYE 11  
 DB 135 ELMVSLDWDYE 145

RESULT 8  
 US-10-025-187-2  
 Sequence 2, Application US/10025187  
 Patent No. US20015001A1  
 GENERAL INFORMATION:  
 APPLICANT: SHEFFIELD, VAL  
 APPLICANT: NISHIMURA, DARRYL  
 APPLICANT: STONE, EDWARD  
 FILE REFERENCE: IOWA:03415  
 CURRENT APPLICATION NUMBER: US/10/025,187  
 PRIORITY APPLICATION NUMBER: 60/256,900  
 PRIORITY FILING DATE: 2001-12-18  
 NUMBER OF SEQ ID NOS: 3  
 SOFTWARE: Patentin Ver. 2.1  
 SEQ ID NO: 2  
 LENGTH: 721  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-10-025-187-2

Query Match 60.0%; Score 33; DB 12; Length 721;  
 Best Local Similarity 60.0%; Pred. No. 1.5e+02;  
 Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
 GY 2 ELMRLQDYE 11  
 DB 348 LLLELRNYYEE 357

RESULT 9  
 US-09-904-536-20  
 Sequence 20, Application US/09934536  
 Patent No. US2002011475A1  
 GENERAL INFORMATION:  
 APPLICANT: Graddis, Thomas J.  
 APPLICANT: McGrew, Jeffrey T.  
 FILE REFERENCE: 03260-0028  
 CURRENT APPLICATION NUMBER: US/09/904,536  
 PRIORITY FILING DATE: 2001-07-16  
 PRIORITY APPLICATION NUMBER: PCT-F APPLICATN: 04/1109,166  
 NUMBER OF SEQ ID NOS: 20  
 SOFTWARE: Patentin Ver. 2.1  
 SEQ ID NO: 20  
 LENGTH: 149  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-904-536-20

Query Match 59.1%; Score 32.5%; DB 10; Length 149;  
 Best Local Similarity 56.2%; Pred. No. 36;  
 Matches 9; Conservative 1; Mismatches 1; Indels 5; Gaps 1;  
 GY 1 ELMRL---QDYE 11  
 DB 82 ELSFLRKLSTTKYEE 37

RESULT 10  
 US-09-745-763-4  
 Sequence 4, Application US/09745763  
 Patent No. US2002015194A1  
 GENERAL INFORMATION:  
 APPLICANT: Jacobs, Kenneth  
 APPLICANT: McRoy, John M.  
 APPLICANT: Lavallie, Edward R.  
 APPLICANT: Collins-Racie, Lisa A.  
 APPLICANT: Evans, Chery  
 APPLICANT: Merberg, David  
 APPLICANT: Tracy, Maurice  
 APPLICANT: Spaulding, Vicki  
 APPLICANT: Sekine, proteins and polynucleotides  
 TITLE OF INVENTION: SECRETIVE PROTEINS AND POLYNUCLEOTIDES  
 NUMBER OF SEQUENCES: ENCODING THEM  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Genetics Institute, Inc.  
 STREET: 87 Cambridgepark Drive  
 CITY: Cambridge  
 STATE: MA  
 COUNTRY: U.S.A.  
 ZIP: 02140  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: FLOPPY DISKETTE  
 COMPUTER: IBM PC COMPATIBLE  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/745,763  
 FILING DATE: 18-Jun-2000  
 CLASSIFICATION: <Unknown>  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Sorungen, Suzanne A.  
 REGISTRATION NUMBER: 41,323  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 498-8284  
 TELEFAX: (617) 876-5851  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 216 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: <Unknown>  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
 US-09-745-763-4

Query Match 58.2%; Score 32; DB 10; Length 216;  
 Best Local Similarity 75.0%; Pred. No. 66;  
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 GY 4 LRQDYE 11  
 QY 11 11111  
 DB 202 LRQDYE 209

RESULT 11  
 US-09-865-960-2  
 Sequence 2, Application US/09865960  
 Publication No. US2002019785A1  
 GENERAL INFORMATION:  
 APPLICANT: Hart, Matthew J.  
 TITLE OF INVENTION: No. 032002019785A1 Nucleic Acids and Polypeptides Related to  
 FILE REFERENCE: 001X1023.DIV1  
 CURRENT APPLICATION NUMBER: US/09/865,960  
 CURRENT FILING DATE: 2002-05-15  
 PRIORITY APPLICATION NUMBER: US/09/943,768  
 PRIORITY FILING DATE: 1997-10-06  
 PRIOR APPLICATION NUMBER: US 60/029,474  
 PRIORITY FILING DATE: 1996-11-06

NUMBER OF SEQ ID NOS: 12  
: SOFTWARE: PatentIn version 3.1  
: SEQ ID NO 2  
: LENGTH: 912  
: TYPE: PRT  
: ORGANISM: Human pl115 GEF-Rho gene  
: FEATURE:  
US-09-865-960-2

Query Match 58.2% Score 32; DB 9; Length 912,  
Best Local Similarity 60.0%; Pred. No. 4e+02;  
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
QY 1 ELMURQYF 10  
1 :111-111:  
Db 610 EDDLRKQY 619

RESULT 112  
: Sequence 64, Application US/09886615  
: Patent No. US20020344856A1

GENERAL INFORMATION:  
: APPLICANT: FLIGMAN, GREGORY  
: APPLICANT: WHYTE, DAVID  
: APPLICANT: CAFENEPHEL, SEAN  
: APPLICANT: CHARYCZAK, GLEN  
: APPLICANT: MANNING, REGARD  
: APPLICANT: SUTARANAM, SHIRIA  
: TITLE OF INVENTION: NOVEL PRO-FASES  
: FILE REFERENCE: 036602/1/214  
: CURRENT APPLICATION NUMBER: US/09/8448, 615  
: CURRENT FILING DATE: 2001-06-26  
: PRIORITY APPLICATION NUMBER: 60/214, 047  
: PRIORITY FILING DATE: 2000-06-26  
: NUMBER OF SEQ ID NOS: 150  
: SOFTWARE: PatentIn Ver. 2.1  
: SEQ ID NO 64  
: LENGTH: 3353  
: TYPE: PRT  
: ORGANISM: Homo sapiens  
: FEATURE:  
: NAME/KEY: MOI RES  
: LOCATION: (1891)  
: OTHER INFORMATION: Acy amino acid  
US-09-868-615-64

Query Match 58.2% Score 32; DB 10; Length 3353;  
Best Local Similarity 62.5%; Pred. No. 1.2e+03;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 4 LRLQYF 11  
Db 1523 1RLQYF 1530

RESULT 13  
: Sequence 48038, Application US/09864761  
: Patent No. US20020348763A1

GENERAL INFORMATION:  
: APPLICANT: Penn, Sharron G.  
: APPLICANT: Rank, David R.  
: APPLICANT: Hanzel, David K.  
: APPLICANT: Chen, Wensheng  
: APPLICANT: Chen, Wensheng  
: FILE REFERENCE: Acomica-X-1  
: TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
: CURRENT APPLICATION NUMBER: US/09/864761  
: CURRENT FILING DATE: 2001-05-23  
: PRIORITY APPLICATION NUMBER: US 60/214, 047  
: PRIORITY FILING DATE: 2000-06-26  
: PRIORITY APPLICATION NUMBER: US 60/207, 456  
: PRIORITY APPLICATION NUMBER: US 09/432, 366  
: PROOF FILING DATE: 2000-08-03

